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(21) International Application Number: PCT/US00/02227 (22) International Filing Date: 28 January 2000 (28.01.00) (30) Priority Data: 60/117,635                      28 January 1999 (28.01.99)      US 60/175,440                      11 January 2000 (11.01.00)      US (71) Applicant: MEDICAL COLLEGE OF GEORGIA RE-SEARCH INSTITUTE, INC. [US/US]; 1120 15th Street, Room CB 1810, Augusta, GA 30912-4810 (US). (71)(72) Applicants and Inventors: LI, Yin-Xiong [US/US]; 1011 Hickman Road, Augusta, GA 30904 (US). FARRELL, Michael, J. [US/US]; 7043 Laramie Avenue, Canoga Park, CA 91306 (US). KIRBY, Margaret, L. [US/US]; 2301 Laurel Lane, Augusta, GA 30904 (US). (74) Agent: SANDBERG, Victoria, A.; Muetting, Raasch & Gebhardt, P.A., P.O. Box 581415, Minneapolis, MN 55458-1415 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  Published <i>With international search report.          Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(54) Title: COMPOSITION AND METHOD FOR <i>IN VIVO</i> AND <i>IN VITRO</i> ATTENUATION OF GENE EXPRESSION USING DOUBLE STRANDED RNA			
(57) Abstract  Introduction of double stranded RNA into cells, cell culture, organs and tissues, and whole organisms, particularly vertebrates, specifically attenuates gene expression.			
<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> <p><b>A</b></p> <p>pEGFP-N1</p> <p>dsRNA</p> </div> <div style="width: 45%;"> <p><b>B</b></p> <p>Zf-T</p> <p>dsRNA</p> </div> <div style="width: 45%;"> <p><b>C</b></p> <p>Pax6.1</p> <p>dsRNA</p> </div> </div>			